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(71) Applicant (for all designated States except US): **JDS
UNIPHASE CORPORATION** [US/US]; 80 Rose Or-
chard Way, San Jose, CA 95134 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MISSEY, Mark**
[US/US]; 1518 Vista Club Circle, Apartment 302, Santa
Clara, CA 95054 (US). **PEZESHKI, Bardia** [US/US];
2404 Roosevelt Avenue, Redwood City, CA 94061 (US).
LANG, Robert, J. [US/US]; 7580 Olive Drive, Pleasan-
ton, CA 94588 (US).

(74) Agent: **KLEMBICZYK, Jeff**, c/o JDS Uniphase Corpora-
tion, 3000 Merivale Road, Ottawa, Ontario K2G 6N7 (CA).

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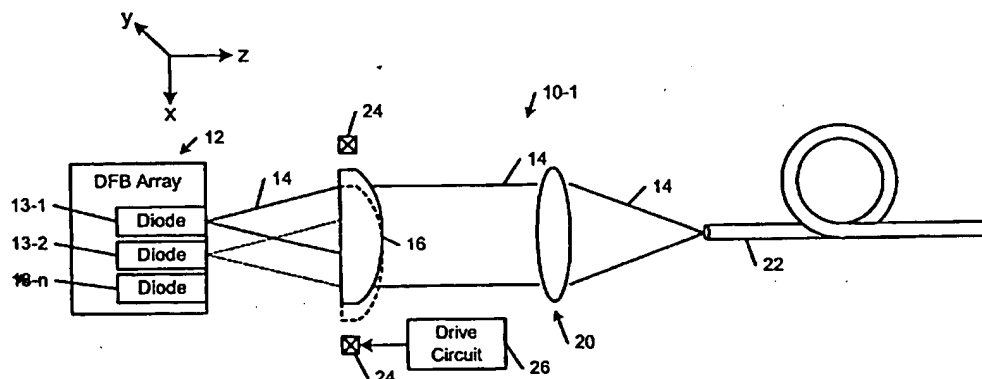
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ning of each regular issue of the PCT Gazette.

(54) Title: **TUNABLE DISTRIBUTED FEEDBACK LASER**



(57) Abstract: A wavelength tunable laser includes a distributed feedback (DFB) array with first and second DFB laser diodes that generates first and second beams of light in first and second wavelength ranges. A microelectromechanical (MEMS) optical element selectively couples one of the first and second beams of light from the DFB laser array into an optical waveguide. The MEMS optical element includes a collimating lens and a thermal or electrostatic MEMS actuator for moving the collimating lens to select the one of the first and second beams of light. A focusing lens is located between the collimating lens and the optical waveguide. Alternately, the MEMS optical element includes a fixed collimating lens that collimates the first and second beams of light, a mirror, and a MEMS actuator for tilting the mirror to select the one of the first and second beams of light.

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 784 183 A (TANIWATARI TSUYOSHI ET AL) 21 July 1998 (1998-07-21) column 8, line 7-20; figures 7,9 column 9, line 12-41; claim 1 ---	1,27,52, 67,81, 88,95, 98,101, 102
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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Claessen, L

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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